

XRPX Acc No: N93-169654

Safe antibacterial solid particle - contains contact lens washing  
compsn. comprising detergent and antibacterial solid particle pref.  
chitosan porous bead

Patent Assignee: SEIKO EPSON CORP (SHIH )

Number of Countries: 001 Number of Patents: 001

Patent Family:

→ Patent No Kind Date Applicat No Kind Date Main IPC Week  
JP 5142502 A 19930611 JP 91309208 A 19911125 G02C-013/00 199328 B

Priority Applications (No Type Date): JP 91309208 A 19911125

Patent Details:

Patent Kind Lan Pg Filing Notes Application Patent  
JP 5142502 A 7

Abstract (Basic): JP 5142502 A

An antibacterial solid particle contains contact lens washing  
compsn. comprising a detergent and an antibacterial solid particle. The  
antibacterial solid particle shows antibacterial effect while it is  
stored in the washing comps., and when it is used for washing, it  
shows a polishing effect. The antibacterial solid particle is pref. a  
chitosan porous bead or a bead contg. an antibacterial metal ion added  
ion exchanger.

An alternative antibacterial solid particle contains contact  
lens washing comps., which contains a detergent and a chitosan  
porous bead as an antibacterial solid particle. The antibacterial solid  
particle shows antibacterial effect while it is stored in a washing  
compsn., and it shows polishing effect and metal chelating effect as a  
detergent component.

The content of the antibacterial solid particle is pref. 0.5 - 25  
w/v%.

USE/ADVANTAGE - By using an antibacterial component, the  
microroganism mixed in the washing compsn. is killed or its growth is  
strictly suppressed. As no preservatives, which are harmful to a living  
body, are added, the washing compsn. is safe to use. As the  
antibacterial solid particle works as a polishing agent, sufficient  
washing power can be provided.

Dwg.0/0

Title Terms: SAFE; ANTIBACTERIAL; SOLID; PARTICLE; CONTAIN; CONTACT ;  
LENS ; WASHING; COMPOSITION; COMPRISE; DETERGENT; ANTIBACTERIAL;  
SOLID;

PARTICLE; PREFER; CHITOSAN ; POROUS; BEAD

Derwent Class: D22; P81

International Patent Class (Main): G02C-013/00

International Patent Class (Additional): C11D-003/48; C11D-017/06

File Segment: CPI; EngPI

\*02\* H1 H181 K0 L7 L722 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222  
M223 M224 M225 M226 M231 M232 M233 M273 M283 M320 M416 M620 M640  
M782 M903 M904 Q252 Q603 R023 R043 9602-D1602-M

\*03\* H1 H103 H181 H5 H581 H8 M210 M211 M212 M272 M273 M281 M282 M316 M321  
M331 M342 M383 M391 M416 M620 M640 M782 M903 M904 Q252 Q603 R023  
R043 9602-D1603-M

\*04\* H4 H402 H482 H8 J0 J011 J2 J271 M210 M211 M212 M213 M214 M215 M216  
M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M262 M281 M313  
M321 M332 M343 M383 M391 M416 M620 M782 M903 M904 Q252 Q603 R023  
R043 9602-D1604-M

\*05\* K0 L4 L432 M280 M320 M416 M620 M782 M903 M904 M910 Q252 Q603 R023  
R043 R00123-M

\*06\* H4 H401 H481 H8 J0 J013 J1 J173 M280 M313 M321 M332 M344 M349 M381  
M391 M416 M620 M782 M903 M904 M910 Q252 Q603 R023 R043 R00419-M

Derwent Registry Numbers: 0123-U; 0419-U

Specific Compound Numbers: R00123-M; R00419-M

Generic Compound Numbers: 9602-D1601-M; 9602-D1602-M; 9602-D1603-M;  
9602-D1604-M

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DIALOG(R)File 351:DERWENT WPI

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009029889

WPI Acc No: 92-157249/199219

XRAM Acc No: C92-072802

Food preservative - based on low mol.wt. chitosan

Patent Assignee: ASAHI SEIBUTSU KOGA (ASAHI-N)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 4099474	A	19920331	JP 90214663	A	19900814		199219 B
JP 2642774	B2	19970820	JP 90214663	A	19900814		199738

Priority Applications (No Type Date): JP 90214663 A 19900814

Patent Details:

→ Patent Kind Lan Pg Filing Notes Application Patent

~~JP 4099474 A~~ 5

JP 2642774 B2 4 Previous Publ.

JP 4099474

Abstract (Basic): JP 4099474 A

The preservative contains the low molecular wt. chitosan of mol.  
wt. 6000-10000 which is obtd. by decomposing chitosan enzymically, as  
the effective ingredient.

Chitosanase produced by Verticillium spAF9-V-156 strain (FERM